

# drive

DeVilbiss®  
HEALTHCARE

# Samsoft 175

## USER MANUAL

### PATIENT LIFT



CE

## CONTENT

<b>I - SPECIFICATIONS.....</b>	<b>3</b>
1. General characteristics .....	3
2. Device weight.....	3
3. Dimensions.....	4
4. Electric system.....	4
5. Actuation forces of the controls.....	5
<b>II - INTENDED USE .....</b>	<b>5</b>
<b>III - METHOD OF ASSEMBLY .....</b>	<b>5</b>
1. General terminology .....	5
2. Unboxing.....	6
3. Assembly.....	6
4. Folding.....	7
5. Separating the base from the rest of the patient lift .....	7
<b>IV - USING THE SAMSOFT 175 .....</b>	<b>7</b>
1. Electric system operation .....	7
1.1. Connections .....	8
1.2. Handset.....	8
1.3. Power unit.....	8
1.4. Charger and charging.....	8
1.5. Battery pack.....	10
2. Manual functions: .....	10
2.1. Manual emergency lowering of the lifting actuator.....	10
2.2. Manual opening of the hoist legs.....	10
2.3. Hanger bar hooks.....	10
3. Conditions for Use .....	10
<b>V - TRANSFERRING THE PATIENT .....</b>	<b>11</b>
1. Transferring the patient from a bed to an armchair .....	11
2. Transferring the patient from an armchair to a bed .....	11
3. Transferring a patient lying on the floor.....	11
4. Moving.....	11
<b>VI - OPTION: 2-POINT HANGER BAR .....</b>	<b>11</b>
<b>VII - SLING RANGE FOR THE SAMSOFT 175 .....</b>	<b>11</b>
1. Controls.....	11
2. Cleaning.....	11
<b>VIII - MAINTENANCE OF THE SAMSOFT 175.....</b>	<b>12</b>
1. General Cleaning .....	12
2. Decontamination.....	12
3. Daily maintenance .....	12
4. Routine maintenance .....	12
5. Preventive maintenance .....	12
1. Mechanical control.....	12
2. Electrical inspection .....	13
3. Charging test.....	13
4. Maintenance manual.....	13
5. List of spare parts.....	13
<b>IX - SHIPPING, STORAGE, AND DISPOSAL .....</b>	<b>13</b>
<b>X - WARRANTY CONDITIONS AND LIABILITY.....</b>	<b>14</b>
<b>XI - BEFORE CONTACTING DRIVE DEVILBISS HEALTHCARE LTD CUSTOMER SERVICE .....</b>	<b>15</b>
<b>XII - MAINTENANCE MANUAL.....</b>	<b>16</b>



**PLEASE CAREFULLY READ THIS USER GUIDE BEFORE USING THE DEVICE.**

- **ONLY USE THE SLINGS PROVIDED BY DRIVE DEVILBISS HEALTHCARE LTD.**
- **MAXIMUM PATIENT WEIGHT 175 KG.**
- **PLEASE CAREFULLY READ THE INSTRUCTIONS BEFORE USING THIS DEVICE.**
- **THIS DEVICE SHOULD BE USED BY QUALIFIED AND TRAINED PERSONNEL.**
- **NEVER USE A DEFECTIVE DEVICE.**
- **ANNUAL PREVENTIVE MAINTENANCE IS COMPULSORY AND SHOULD BE PERFORMED ACCORDING TO LOLER REGULATIONS AND § VIII/5 OF IFU.**

## WARNINGS

The owner must inform and show the user how to handle the patient lift detailing the precautions for use and the risks related to inappropriate use.

Any areas where there is a risk of entrapment should be explained in detail. The owner should ensure the user perfectly understood the safety instructions.

When assembling and using the device, it is recommended to keep hands away from areas where there is a risk of entrapment. When the patient lift is exposed to heat source (sunlight through a window or radiator) for a long time, ensure there is no burn risk before using the patient lift.

The device should be used in an unobstructed area so that manoeuvres are not disturbed.

Although slings provided by Drive Devilbiss Healthcare are flame retardant, do not use the device in the vicinity of flames and do not smoke near the device.

Do not use or store the patient lift in a place that is too damp or close to splashing water (rain, shower, etc.).

Under certain circumstances the operation of the patient lift can be affected by radio and electromagnetic waves (proximity of a radiotelephone antenna, etc.).

In case of malfunction, do not use the patient lift.

The patient lift operation can interfere with sensitive electronic devices. In this case, do not use the patient lift.

Because of the component weight and dimensions, there are risks when dismantling and reassembling. Thus, it is highly recommended to be assisted and to beware of areas where this is risk of entrapment.

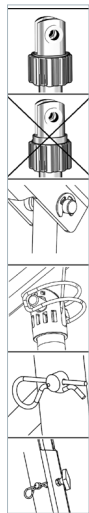
Any serious incident that has occurred in relation to the device should be reported to the manufacturer and the competent authority of the Member State in which the user and/or patient is established.

## IDENTIFICATION LABEL

<b>Drive Devilbiss Healthcare France</b> Chaussée du Ban la Dame Parc d'Activités Eiffel Energie ZAC du Ban la Dame - BP19 54390 FROUARD France		
<b>REF</b> SR2810100-MTS LEVE PATIENT SAMSOFT175 V2 DWT CI		
2020-10	<b>SN</b> 90769379	
= 175 kg		

## SYMBOLS AND EXPLANATIONS

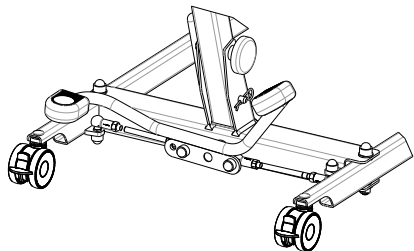
	Maximum user weight	<b>REF</b>	Product reference
	Caution: hazard!	<b>MD</b>	Medical device
	Carefully read the instructions	<b>SN</b>	Serial number
	Device manufacturer	<b>CE</b>	Device complying with the regulations in force on medical devices.
	Date of manufacture		



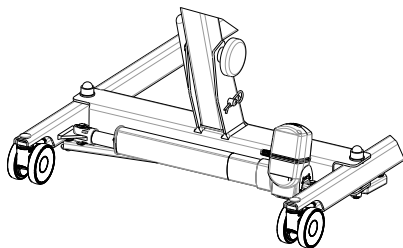
- Make sure the red emergency lowering ring is in the up position.
- Make sure the elastic ring is correctly engaged in the groove of the axle.
- Make sure the spring pin is correctly oriented on either side of the lug, and correctly closed.
- Make sure the beta pin in the lower part of the mast is correctly positioned.
- Make sure the wing knob is correctly screwed in.

## I - SPECIFICATIONS

*Samssoft 175* exists in two versions, distinguished by a different type of spacing of the hoist legs on the wheel base (shown below):



MANUAL SPACING VERSION OF THE HOIST LEGS  
(presence of a foot pedal)



ELECTRIC SPACING VERSION OF THE HOIST LEGS  
(presence of an electric actuator)

When the specifications are different between the 2 versions, they are marked with:

- (M) for the manual spacing version of the hoist legs.
  - (E) for the electric spacing version of the hoist legs.
- Unless otherwise specified, the specifications described below are standard for both.

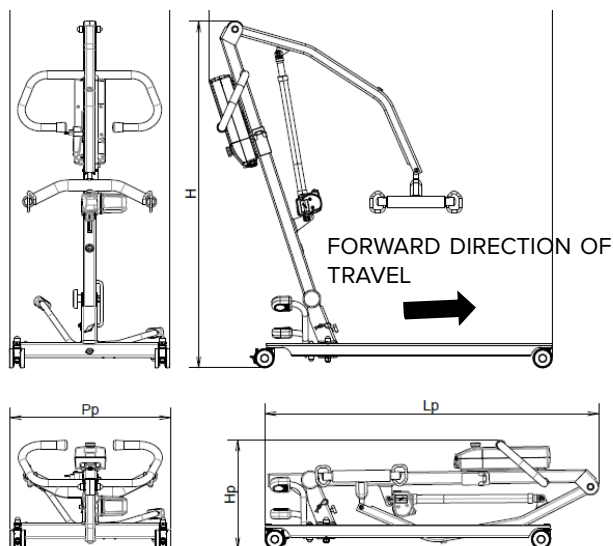
### I-1) GENERAL CHARACTERISTICS

Maximum working load (patient + sling)	175 kg
Electric operation	On battery
Battery charge	Direct (on the device) or indirect (after removing the battery pack)
Duration of the battery charge	8 h
Battery life when the device has a 100-kg load; new and fully charged battery	(M): 42 up/down cycles (E): 40 up/down cycles with opening/closing of the hoist legs
Lifting time without any load	38 s
Lifting speed without any load	31 mm/s
Lifting time when the working load is max.	70 s
Lifting speed when the working load is max.	16 mm/s
Electric opening time of the hoist legs when the working load is max.	(E) : 4.5 s
Working life of the device in number of up/down cycles when the working load is maximum	10000
Structure materials	Steel
Structure coating	Epoxy powder RAL 7005 - 7004 - 3020

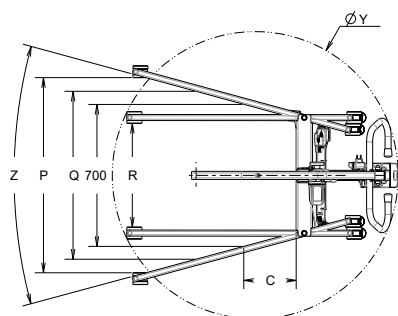
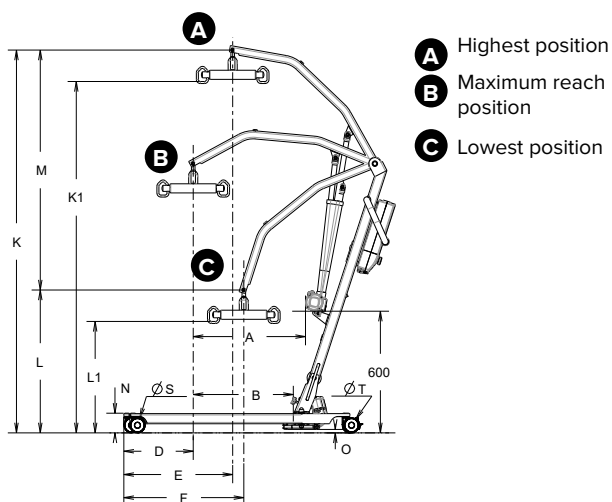
### I-2) DEVICE WEIGHT

Wheel base weight	(M) : 15.7 kg (E): 16.4 kg
Weight of mast + boom without hanger bar	20 kg
Total weight without hanger bar	(M) : 35.7 kg (E): 36.4 kg
Serial 4-point hanger bar weight	2.3 kg
Weight of mast + boom with serial 4-point hanger bar	22.3 kg
Total weight with serial 4-point hanger bar	(M) : 38 kg (E): 38.7 kg
Optional 2-point hanger bar weight	1.4 kg

## I-3) DIMENSIONS



Dimensions when unfolded (in use) (L x W x H)	1350 x 630 x 1360 mm
Dimensions when folded (transport or storage) (Lp x Wp x Hp)	1310 x 630 x 430 mm



A	Maximum reach at 600 mm (reference height)	560 mm
B	Maximum reach from the base	500 mm
C	Reach from the base, with legs 700-mm apart	260 mm

D	Minimum distance from the wall to the CSP (central suspension point) with maximum reach (closed hoist legs)	345 mm
E	Minimum distance from the wall to the CSP (central suspension point) with maximum height (closed hoist legs)	540 mm
F	Minimum distance from the wall to the CSP (central suspension point) with minimum height (closed hoist legs)	595 mm
K	Maximum CSP (central suspension point) height	1890 mm
L	Minimum CSP (central suspension point) height	700 mm
M	Lifting stroke	1190 mm
K1	Maximum connecting point height	(1) : 1735 mm (2) : 1775 mm
L1	Minimum connecting point height	(1) : 545 mm (2) : 585 mm
N	Base height	95 mm
O	Ground clearance	(M) : 22 mm (E) : 17 mm
P	Maximum internal width	(M) : 810 mm (E) : 965 mm
Q	Internal width with maximum reach	(M) : 720 mm (E) : 830 mm
R	Minimum internal width	520 mm
S	Front castor diameter (width 60mm, without brake)	Ø 75 mm
T	Rear castor diameter (width 60mm, with brake)	Ø 75 mm
Y	Turning diameter (closed hoist legs)	Ø 1420 mm
Z	Maximum opening angle of the legs	(M) : 20° (E) : 30°

Note: (1): With serial 4-point hanger bar  
(2): With optional 2-point hanger bar

General dimensional tolerances: +/-5%

## I-4) ELECTRIC SYSTEM

### Battery charger

Supply voltage	100–240 V AC, 50/60 Hz 46VA
Output voltage	29 V DC max. 700 mA
Insulation class	Class II
Ingress protection rating	IP 20

### Power unit (control box + battery pack assembly):

Battery pack composition	2 batteries 12v/4.5 Ah connected in series
Battery type	Lead-acid (sealed, maintenance-free)
Output voltage	24 V DC
Output current	Max 8.5 A

Protection	Current limiter
Electric emergency lowering	Yes
Emergency stop push button	Yes
Number of outputs (actuators)	(M) : 1 (E) : 2
Charger input, internal recharge	Yes
Duty cycle	10%, 2 min ON / 18 min OFF
Ingress protection rating (mounted assembly)	IP X4

**Lift cylinders:**

Max. thrust force	8,000 N
Anti-crush system	Yes
Manual emergency lowering	Yes
Ingress protection rating	IP X4
Sound level	≤ 60 dB

**Spacing cylinders (only for the electric spacing version of the hoist legs):**

Max. actuator power (push/pull)	2,000 N
Ingress protection rating	IP X4
Sound level	≤ 60 dB

**I-5) ACTUATION FORCES OF THE CONTROLS**

Buttons of the control box and handset (finger-operated)	< 5 N
Emergency stop button (hand-operated)	< 105 N
Emergency stop button (rotary control to deactivate the emergency stop)	< 1,9 N.m
(M): Manual spacing pedal of the hoist legs (foot-operated)	< 300 N

**Certification**

The company Drive DeVilbiss Healthcare France ensures quality of the *Samssoft 175* through its compliance with the requirements of ISO standard 13845:2016 for Medical Devices - Quality Management Systems – Requirements for Regulatory Purposes.

Moreover, to ensure safety and performance, the *Samssoft 175* meets the safety and performance requirements set out in the Regulation (EU) 2017/745.

A Declaration of Conformity can be issued on request.

**Compliance with standards:**

The *Samssoft 175* is certified according to:  
 - ISO 10535:2006 or NF EN ISO 10535:2007 standard for patient lifts designed to transfer disabled people  
 - the requirements and test methods and associated standards.

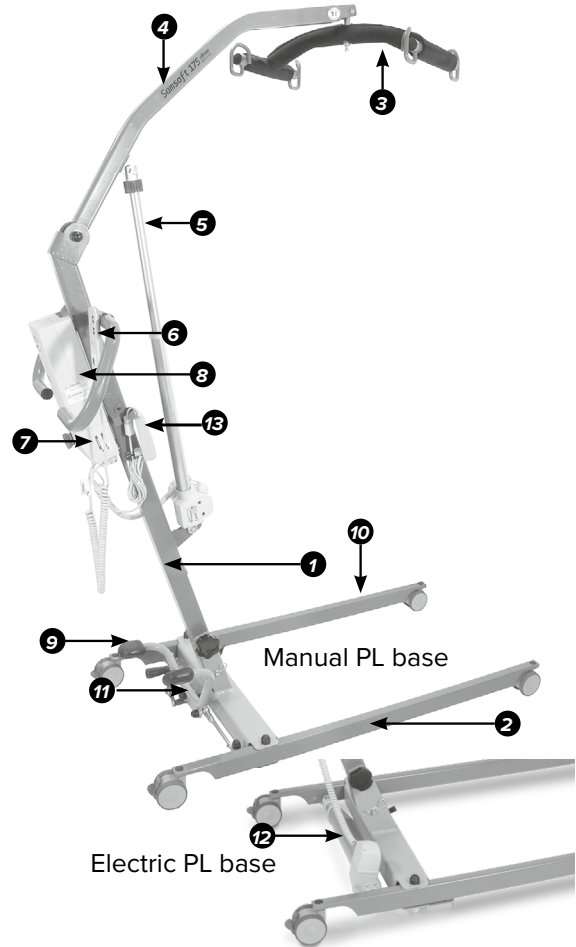
**II - INTENDED USE**

● This device is intended to transfer mobility-impaired patients; it can be used in combination with a wheelchair, a shower seat, a bed, or a toilet seat.

⚠ Not suitable for children under 12, for patients with mental disorders, and for patients whose morphology is incompatible with this kind of transfer.

**III - METHOD OF ASSEMBLY**

**III-1) GENERAL TERMINOLOGY**



- 1 - Mast
- 2 - Base
- 3 - Hanger bar
- 4 - Boom
- 5 - Lift actuator
- 6 - Handset
- 7 - Control box
- 8 - Battery pack
- 9 - Hoist legs spacing pedal
- 10 - Hoist legs
- 11 - Manual spacing pedal of the hoist legs
- 12 - Electric spacing actuator of the hoist legs
- 13 - Battery charger

## III-2) UNBOXING

Make sure all the device elements have not been damaged during transport. Make sure the accessories are present: the lifting assembly (box with battery pack, actuator, handset), battery charger, a user guide, and possibly a sling if it was ordered.

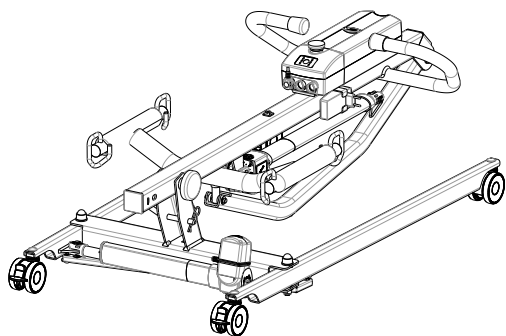
**Note:** Our device is mounted and tested in our manufacturing site, but its packaging requires to be folded.

## III-3) ASSEMBLY

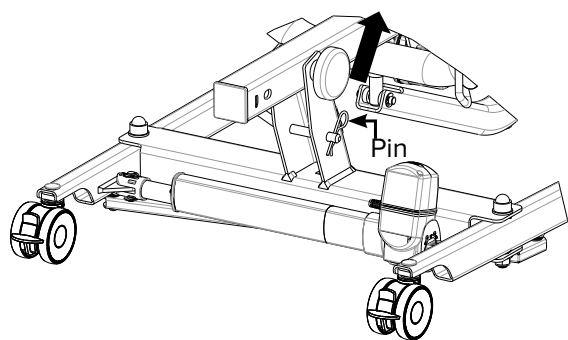
**CAUTION:** before using the device, make sure all the shafts, screws, and pins used during the installation are perfectly engaged in their respective supports, and they are correctly locked.

The *Samsoft 175* is operational only if you use the sling compatible with this device and if you respect the maximum permissible load of **175 kg**.

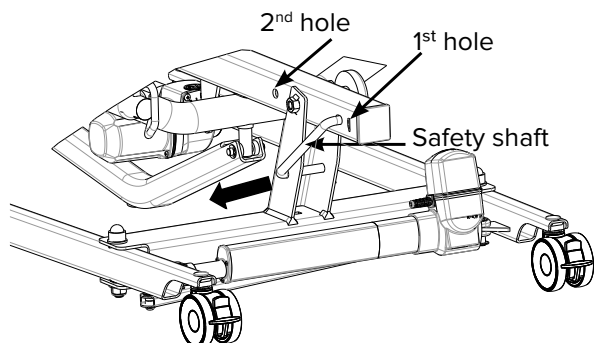
● Remove the structure from the box (possibly by cutting the box corners), lay the structure on a flat floor, and then lock the wheel brakes.



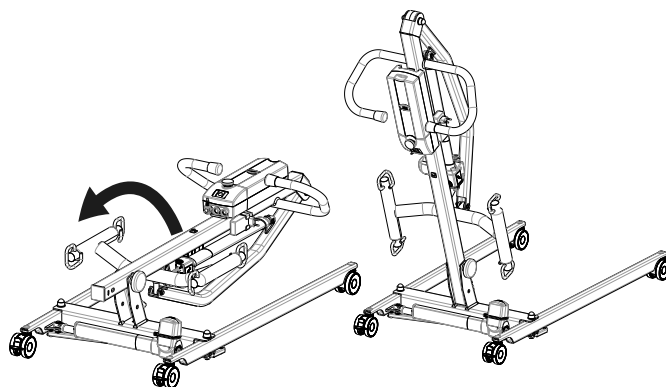
● In the lower part of the mast, remove the pin.



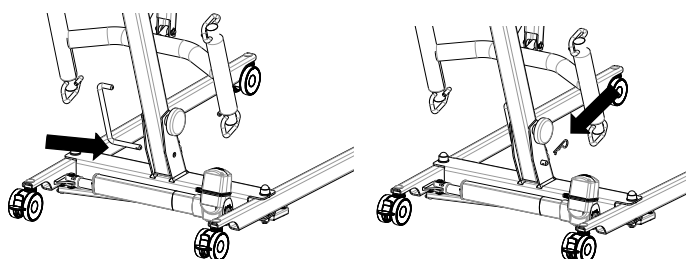
● Remove the safety shaft from the first hole of the mast.



● Straighten up the mast.

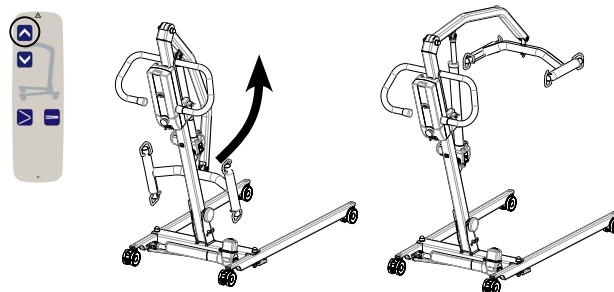


● Reposition the safety shaft in the second hole of the mast, and then put the pin back.

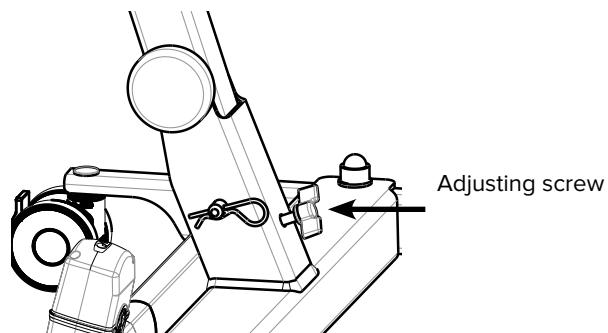


● On the handset, press the lifting key to unfold the boom. The ball joint linking the hanger bar to the mast automatically disengages.

**CAUTION:** To avoid any risk of tearing, make sure the hanger bar and particularly its hooks are clear of the cables and mast in the vicinity during this unfolding step of the boom.



● Tighten the adjusting screw (black wing screw).



### III-4) FOLDING

The device must be folded to be transported. The folding method is similar to the assembly method (unfolding), but must be carried out in reverse order to the steps illustrated in the previous chapter:

- Loosen the adjusting screw.
- Press the lowering key on the handset to fold the boom until the hanger bar ball joint is facing the mast clip.
- Snap the ball joint into the mast.
- Remove the pin and the mast safety shaft.
- Remove the mast safety shaft.
- Lower the mast/boom/hanger bar assembly onto the hoist legs.

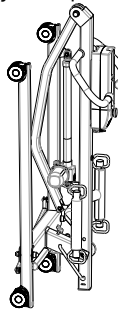
**CAUTION: entrapment hazard**

- Reposition the mast safety shaft in the first hole and put its pin back.



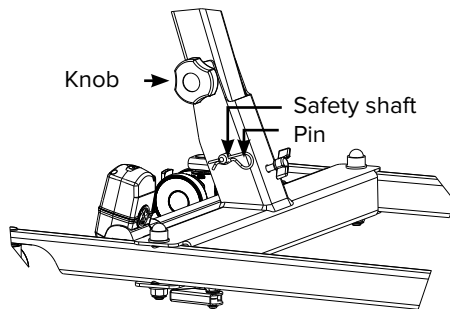
Refer to the specifications for the weight of the two separate elements.

The device can be vertically transported or stored.

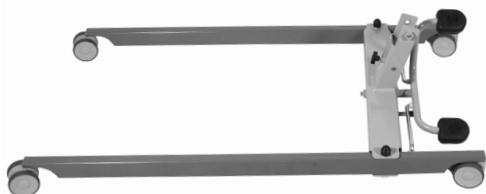


### III-5) SEPARATING THE BASE FROM THE REST OF THE PATIENT LIFT

To easily carry the Samsoft 175, you can disassemble it into 2 parts by unscrewing the knob completely and by removing the safety shaft.



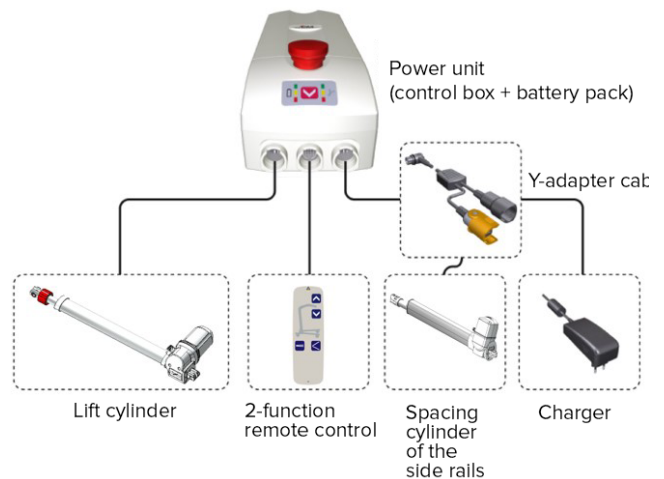
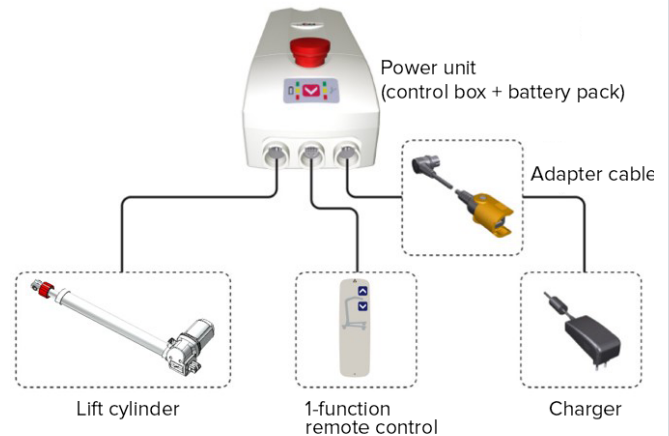
**CAUTION: Partially unscrew the adjusting screw before separating the mast from the wheel base. after reassembling, check all the fastening elements and the safety pin are correctly installed. firmly tighten the knob.**



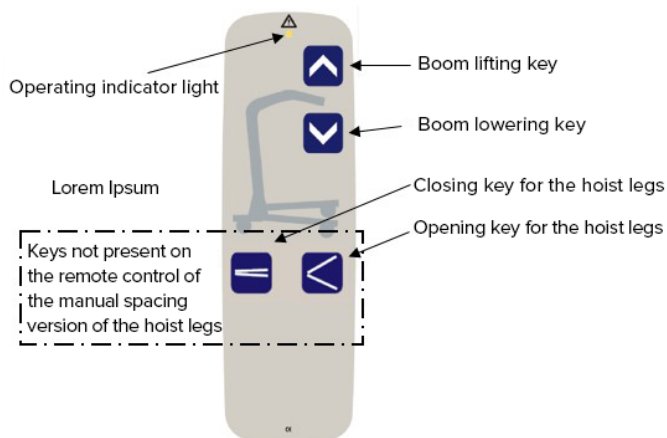
## IV - USING THE *Samsoft 175*

### IV-1) ELECTRIC SYSTEM OPERATION:

#### IV-1.1) CONNECTIONS



## IV-1.2) HANDSET

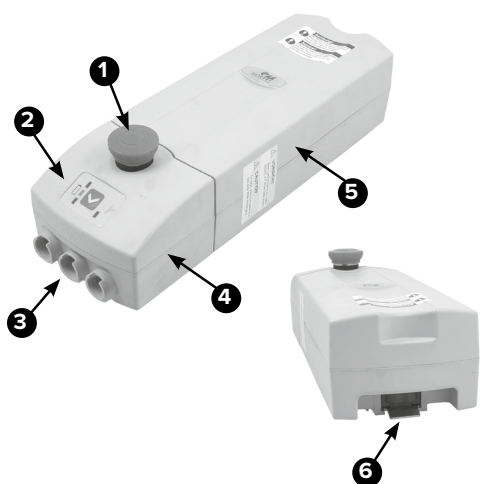


### Operating indicator light:

Under normal operating conditions, the indicator light turns yellow when and while any function is pressed (it briefly turns red when the key is released, and then goes off).

In the event of a relay fault in the power supply, the light turns solid red.

## IV-1.3) POWER UNIT



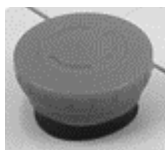
- 1- Emergency stop push button
- 2- Control panel
- 3- Connection socket
- 4- Control box
- 5- Battery pack (removable)
- 6- Battery pack release button

### Emergency stop push-button

In case of emergency, the central supply can be stopped by pressing the emergency stop button. All the functions of the electric system are then deactivated.

The emergency stop button is reset by turning the button slightly clockwise until it pops out.

The emergency stop button must always be accessible during operation so that it can be activated quickly in case of an emergency.

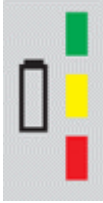




## Control panel

The control panel features:

- a battery charge status indicator
- an electric emergency lowering button
- a maintenance indicator



<p>Battery charge status indicator</p> 	<p>The battery charge status displays after pressing one of the functions of the handset for more than 2 seconds. When releasing the key, the indicator remains on for 10 seconds.</p> <p>Battery level indicators:</p> <p><b>Green:</b> the batteries are fully charged.  <b>Green and yellow:</b> the batteries are 75% charged.  <b>Yellow:</b> the batteries are 50% charged.  <b>Yellow and red:</b> batteries almost totally depleted.  <b>Red:</b> empty batteries.</p> <p>Charge them.  <b>Note:</b> If several repeated beeps are heard when the patient lift is rising, this is a warning indicating the batteries are low.</p>
<p>Electric emergency lowering button</p> 	<p>If the handset cannot lower the patient, a separate boom lowering circuit can be activated by pressing the electric emergency lowering button.</p>
<p>Maintenance indicator</p> 	<p>If the red light is on (under the small spanner symbol), the device requires preventative maintenance, please contact Drive DeVilbiss Healthcare Ltd Customer Service.</p>

## IV-1.4) CHARGER AND CHARGING

The charger allows the batteries to be recharged when they are depleted (see previous chapter on the battery charge status) by two methods:

**Direct charge:** by connecting the charger directly to the patient lift without removing the battery pack.

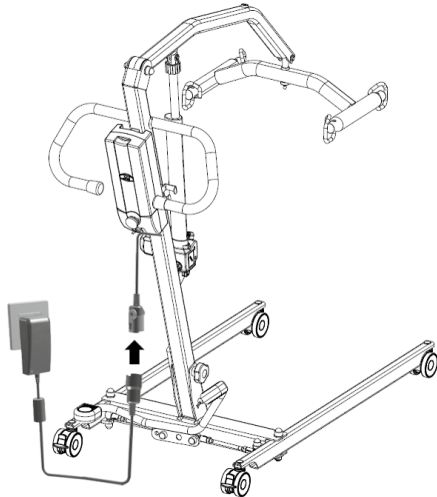
Please note that it is not possible to operate the actuators with the remote control during direct charging.

**Indirect charge:** by removing the battery pack from the patient lift to connect it to the charger (with this method, you do not have to move the patient lift closer to a mains socket).

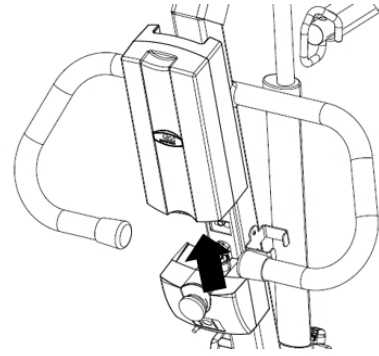


## Direct charge:

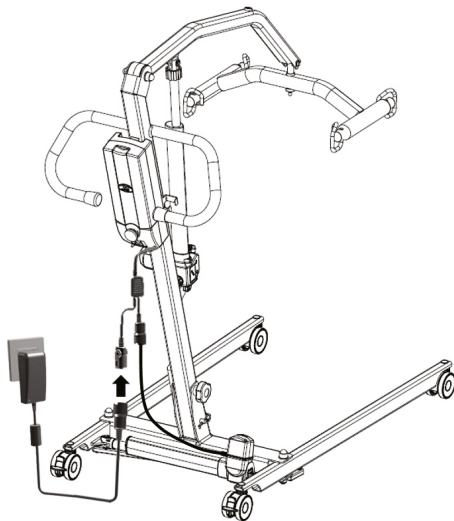
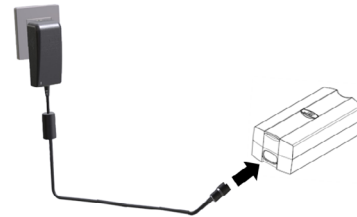
Separate the battery pack from the control box by pulling upwards



MANUAL SPACING VERSION OF THE HOIST LEGS



Connect the charger plug to the battery pack



ELECTRIC SPACING VERSION OF THE HOIST LEGS

The charger is equipped with a battery charge indicator light.

When the charger is connected to the mains and its plug is connected to the batteries in direct or indirect charge:

- The green light flashes when the batteries are charging.
- When the green light is permanently on, the batteries are fully charged. Charging is complete: the charger can now be disconnected from the mains. If charging indirectly, the battery pack must be disconnected from the charger and then reassembled on the patient lift to be ready for use again.

Note: When the charger plug is not connected to the batteries:

- The green light is permanently on if the charger is connected to the mains.
- The green light is off if the charger is not connected to the mains.

When not in use, the battery charger can be stored on the dedicated stand to this purpose attached to the patient lift mast.

The batteries must be charged every night.

This operation should be performed in a well-ventilated room.

Check the condition of the charger cable before plugging it in.

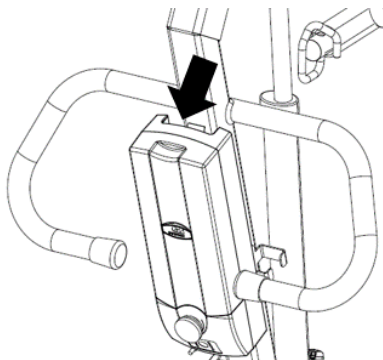
Battery charge indicator light (if the batteries are connected):

- Flashing green light:** batteries charging
- Constant green light:** batteries are charged



## Indirect charge:

Press the battery pack release button



## IV-1.5) BATTERY PACK

The 2 batteries included in the battery pack do not require any special maintenance. Though, they must be charged regularly to preserve their service life (minimum charge every 3 months). With a second battery pack (available as an option on request), the device can work 24 hours a day.

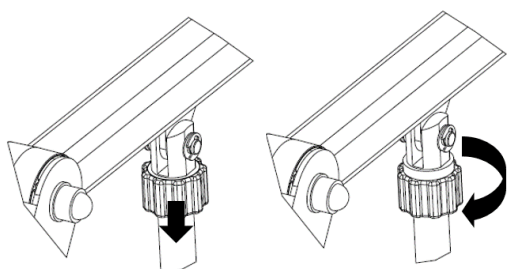
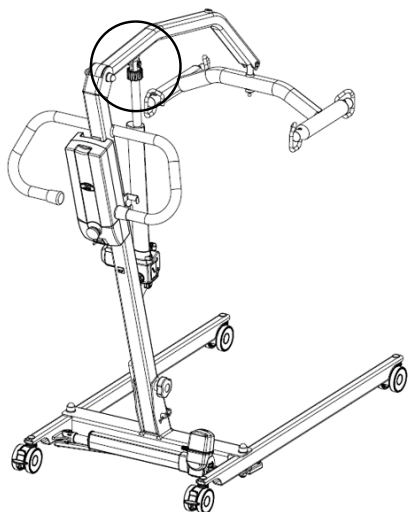
## IV-2) MANUAL FUNCTIONS:

### IV-2.1) MANUAL EMERGENCY LOWERING OF THE LIFT ACTUATOR

The lift actuator has a manual emergency lowering system that allows the boom to be lowered manually in the event of a power failure.

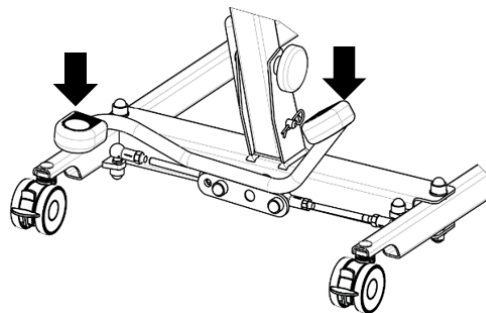
This system consists of a red ring at the end of the cylinder rod that must be lowered to disengage and turned to lower the boom.

Caution: Remember to return the ring to the up (engaged) position after the manual emergency lowering is completed.



### IV-2.2) MANUAL OPERATION OF THE HOIST LEGS

Press the spacing pedal to open or close the *Samssoft 175* base.



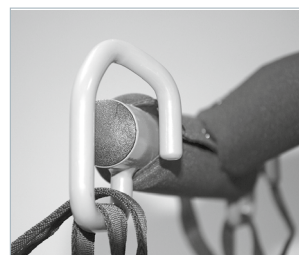
As standard, the patient lift is equipped with an automatic locking system for the hoist legs in the closed position (toggle lock).

If required, an additional system for locking the hoist legs in the open position can be integrated as an option (see relevant chapter).

### IV-2.3) HANGER BAR HOOKS

This patient lift is equipped with a hanger bar with non-return hooks.

Before transferring the patient, check each loop of the sling is inside the hooks.



## IV-3) CONDITIONS FOR USE

**WARNING:** The *Samssoft 175* must only be used indoors on a level, stable and adherent floor; it must be handled by competent personnel trained in the use of this type of equipment.

When all the connections are made:

- Make sure the actuator(s) respond correctly to the commands from the remote control.
- Make sure the batteries are charged enough (see colour code, chap. IV. 1-c).

If these conditions are met, the device is ready for use.

**CAUTION:** The actuators should only be used intermittently: 2 minutes on, and then 18 minutes off. Do not exceed 2 minutes continuous operation.

Any usage frequency exceeding the above cycle may damage the lift assembly (actuator/control box). This damage is excluded from the warranty.

## V - TRANSFERRING THE PATIENT

Before positioning and transferring the patient, make sure:

- The patient's weight is compatible with the maximum permissible load of the patient lift - **175 kg max.**
- The batteries are charged and the patient lift is fully operational.
- The floor is flat and stable.
- The patient lift brakes are functional.
- The sling is compatible with the *Samsoft 175* (sling from Drive DeVilbiss Healthcare Ltd).

- The sling attachments and the patient support elements are in perfect condition.

- Regular maintenance is carried out at least once a year (see maintenance manual included in this user guide).
- If the patient is agitated, an accompanying person should secure the patient's movement.

Once these checks have been made, you can transfer the patient.

**CAUTION:** Move the patient lift base as far away as possible before lifting or moving the patient. Do not engage the brakes. Do not continue to lift or lower the patient if the 4 castors are not on the floor. Lifting should be done very gradually, checking the patient is well positioned in the sling and there is no risk of tipping due to excessive overhang.

### IV-1) TRANSFERRING THE PATIENT FROM A BED TO AN ARMCHAIR

- Position the patient on their side.
- Place the sling under the patient.
- Check the back part of the sling is correctly positioned (from shoulders to tail bone).
- Lay the patient on their back.
- Pass each leg support under each thigh.
- Position the patient lift at the patient's level.
- Hang each loop of the sling to the hanger bar hooks.
- The patient can now be transferred from a bed to an armchair.

### IV-2) TRANSFERRING THE PATIENT FROM AN ARMCHAIR TO A BED

- Lean the patient forward while holding him/her.
- Slide the sling behind the patient's back up to the tail bone.
- Pass each leg support under each thigh.
- Position the patient lift at the patient's level.
- Hang each loop of the sling to the hanger bar hooks.
- The patient can now be transferred from an armchair to a bed.

Particular points:

- When positioning the sling, make sure it does not wrinkle at the leg level to prevent injury to the patient.
- Do not apply the brakes when lifting so that the patient lift can be positioned correctly in relation to the patient.

**CAUTION**  
In case of power supply problem, you can manually lower or lift the boom by pressing and turning the red ring at the end of the cylinder rod.

### IV-3) TRANSFERRING A PATIENT LYING ON THE FLOOR

The patient's weight must not exceed 175kg and the patient lift should be placed so that the patient's head and chest are located inside the hoist legs. Perform the lift gradually, ensuring that the patient remains well positioned inside the sling.

### IV-4) MOVING

Although we do not recommend moving the patient whilst in the patient lift, it is possible to use the patient lift to make a very short trip with the patient suspended (e.g. from bed to shower). Use the handles to move and guide the patient lift. Another person should secure the patient.

- ⚠ Do not push or pull the slings or the hanger bar to move the patient lift.
- Do not move a patient if agitated.

## VI - OPTION: 2-POINT HANGER BAR

Available as an accessory or as a replacement option for the standard 4-point hanger bar.



## VII - SLING RANGE FOR THE *Samsoft 175*

A full range of slings are available to use with the *Samsoft* hoist. Please contact your local distributor for full details.

Only use the slings provided by Drive DeVilbiss Healthcare Ltd.

⚠ Do not exceed the maximum load of the patient lift.

### VII-1) CONTROLS

(To be performed by a competent person)

Before each use, check the condition of the slings: no loose seams, the fabric and slings must not be frayed, no tears or traces of wear (transparent fabric weave).

### VII-2) CLEANING

(Whenever necessary; to be performed by a competent person)

- Please refer to the cleaning instructions included with the sling.

## VIII - MAINTENANCE OF THE *Samssoft 175*

Unplug the power cable and remove the battery pack before servicing.

### VIII-1) GENERAL CLEANING

Monthly or as required; to be carried out by competent personnel.

- Wipe down with a clean cloth moistened with a mild detergent and dilute with warm water.
- Wipe surfaces with cold, clean water and a clean cloth, and allow to fully dry before use.
- Do not use too aggressive detergents and do not clean under running water.

### VIII-2) DECONTAMINATION

(Whenever necessary; to be performed by a competent person).

- Mop up any fluid with paper towels.
- Wipe surfaces using cold clean water.
- Wipe down with a 0.1% Chlorine solution (1,000ppm) in cold water.
- Wipe surfaces with cold clean water and a clean cloth and allow to fully dry before use.

In cases of blood spills or other bodily fluids it is recommended that a 1% Chlorine solution (10,000ppm) is used instead.

Suitable protective clothing must be worn when handling chlorine solutions.

### VIII-3) DAILY MAINTENANCE

Charge the battery pack every night.

### VIII-4) ROUTINE MAINTENANCE

(Monthly or as required; to be carried out by a competent person).

Routine maintenance consists of checking the patient lift functionality:

- With the patient lift on level ground, check the 4 castors are touching the floor.
  - When the brakes are engaged, it must not be possible to move the patient lift (level and stable floor).
  - Check the handles on the mast to ensure the boom and hoist legs move smoothly and without noise.
  - Handle the handles on the mast and check there is no play between the boom and the mast and between the mast and the hoist legs.
  - Check the plastic covers and protective housings are not broken and there are no cracks or missing parts.
  - Check the condition of the connecting cables: power cable, handset, and actuator. If a cable shows the slightest trace of burning, wear, cut or if the wires are visible, quarantine the patient lift immediately and have the cables replaced by the technical service.
  - The slings must be checked at least once a month, or more regularly if used intensively, to ensure the seams are not undone, the weft of the upholstery and slings is not visible and there are no torn parts.
- Never use a defective sling.



Only authorised service personnel or Drive DeVilbiss Sidhil Service Technicians should carry out repairs or service activities.

Failure to do so may result in the manufacturer's warranty becoming void.

**Worn or malfunctioning parts must be replaced with original parts manufactured by Drive DeVilbiss Healthcare Ltd.**

Complete a load test before putting patient lift back into service.

### VIII-5) PREVENTIVE MAINTENANCE

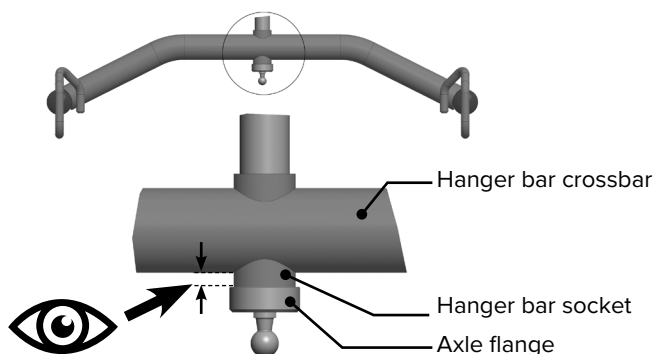
Annually or as required; to be carried out by an authorised person or Drive DeVilbiss Sidhil Service Technicians according with paragraphs 5.1, 5.2, and 5.3 below.

- It is a requirement to carry out preventative maintenance annually.
- Battery pack to be changed approximately every 18 months, depending on use.
- Only authorised service personnel or Drive DeVilbiss Sidhil Service Technicians should carry out annual preventative maintenance. No special tools are required to carry out annual maintenance, but tools used must be adequate and fit for purpose. All maintenance activities must be carried out according to this manual and LOLER requirements.

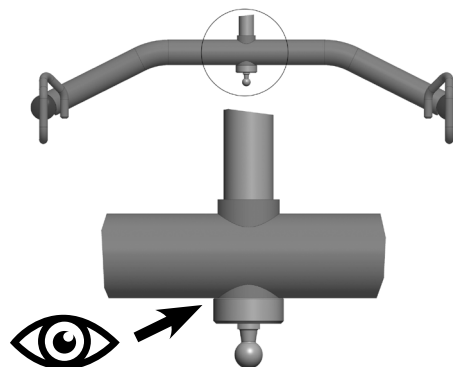
#### VIII-5.1) MECHANICAL CONTROL

- Remove the cover from the hanger bar and observe the axle and hanger bar assembly for wear:

**Compliant assembly:** the flange of the axle does not touch the crossbar of the hanger bar.



**Non compliant assembly:** the flange of the axle touches the crossbar of the hanger bar.



**⚠ Caution: the axle and the hanger bar must be replaced immediately. The patient lift must not be used until all worn parts have been replaced and a verification has been carried out before putting it back into service.**

- If the assembly is compliant, disassemble the axle from the hanger bar and clean any grease, debris or dust from the axle and hanger bar.

- Inspect the axle, flange, and cross hole for signs of damage, unacceptable wear or deformation.

A small amount of wear and tear may be seen on the inside of the flange in contact with the lifting beam socket. This small amount of wear is acceptable as long as the assembly is compliant (see above); if in doubt, replace the axle immediately.

- Repeat the inspection on the hanger bar **paying particular attention to the condition of the socket and welds.**

- Grease the axle and the socket of the hanger bar, taking care to grease the flange part and the socket.

**Note:** Use a suitable metal-to-metal grease or contact Drive DeVilbiss Healthcare Ltd for any request.

- Carefully reassemble the assembly, ensuring everything is secure and the hanger bar rotates correctly around the axle.

**Caution: The axle and hanger bar must be replaced every 5 years or when the above mentioned wear occurs, whichever comes first.**

- Disassembly, cleaning and lubrication of front and rear castors.
- Disassembly, cleaning and lubrication of the mast hinge.
- Check the fastening, wheel play, and efficiency of the brakes.
- Check the welds. Visual inspection.
- Check the alignments. Visual inspection.
- Check and lubricate after dismantling the mast and hanger bar pivots.
- Check and grease the actuator fasteners.
- Re-tighten all parts.

Mechanical parts showing cracks, signs of wear or geometric defects must be replaced with original components supplied by Drive DeVilbiss Healthcare Ltd.

### VIII-5.2) ELECTRICAL INSPECTION

- Check the handset.
- Check the charger.
- Check the remote control box and the actuator.
- Check the lifting/lowering speed.
- Check the emergency stop and lowering.
- Condition of the electric cables (change the cables if in doubt).

Replace the electric cables, and/or the components to which they are connected, if they show signs of wear, sheathing cuts, plug degradation or blackening of the plastics and sheathing around the connection areas. Replace defective components with original ones. Never disassemble the protective covers of the actuator, battery pack, handset, control box and battery charger.

### VIII-5.3) CHARGING TEST

- Charge the battery pack.
- Check the power and autonomy of the battery pack.

- Test of the patient when fully loaded at 175 Kg and check the cut threshold (230 Kg ± 10 Kg).

### VIII-5.4) MAINTENANCE MANUAL

Every maintenance operation or intervention must be recorded in the maintenance manual attached to these instructions.

### VIII-5.5) LIST OF SPARE PARTS

A list of spare parts is available on request.

## IX - SHIPPING, STORAGE, AND DISPOSAL

- The patient lift must be returned or transported in its original packaging.

- Before storing the patient lift, clean it thoroughly and check its operation; store it in a dry room away from dust and moisture. The batteries must be fully charged every 3 months.

- When commissioning after storage, charge the battery pack, and check the operation before further use.

- Storage temperature: .....0 to +50°C

- Humidity between 10 and 80%

- Operating temperature: ..... +10 to +40°C

- Humidity between 30 and 80%

- Defective parts, packaging, and battery packs must be disposed of at authorised waste treatment centres.

- The device in question must not be disposed of with household waste, and must be handed in to an appropriate waste collection point or a distributor. The patient lift is subject to Directive 2002/96/EC on waste electrical and electronic equipment (WEEE) and marketed after 13 August 2015.

- By following these guidelines, you are doing your bit for the environment by helping to preserve natural resources and protect human health.

## **X - WARRANTY CONDITIONS AND LIABILITY**

The *Samssoft 175* is guaranteed for 5 years on structure, actuator, and control box, in normal use according to the instructions given in this manual. Negligence, handling errors or accidents are excluded from the warranty. The handset and battery are guaranteed for 24 months.

- Any modification or addition of accessories without written consent from Drive DeVilbiss Healthcare Ltd, will de facto exclude the patient lift from the warranty and from Drive DeVilbiss Healthcare UK's liability. In particular, we cannot be held liable for the use of slings not marketed by Drive DeVilbiss Healthcare Ltd for this patient lift.

- The periodic checks and inspections mentioned in the previous paragraph must be carried out by an authorised person and recorded in the maintenance manual.

Out of the warranty period, we cannot be held responsible if these checks and inspections are not carried out. Only spare parts and components supplied by Drive DeVilbiss Healthcare Ltd can be used for repairs.

- Any serious incident occurring in connection with this patient lift must be notified to the manufacturer and to the competent authority of the Member State in which the user and/or patient is established.

## XI - BEFORE CONTACTING DRIVE DEVILBISS HEALTHCARE FRANCE CUSTOMER SERVICE

PROBLEM	INDICATOR / SIGN	POSSIBLE CAUSE	SOLUTION
Pressing the boom lifting function on the handset causes the red ring to rotate	Electric boom lifting impossible	The actuator rod is disengaged (manual emergency lowering activated)	Push the red ring upwards
The actuator does not respond to handset commands	No control panel light is on (*) and the handset light remains off	The handset plug is not properly plugged into the control box	Insert the plug correctly
		The handset cable is cut	Replace the handset
		The emergency stop push button is down	Turn the button slightly clockwise until it unlocks
		The battery pack is completely discharged	Charge the battery pack
		The battery pack or the control box is out of order	Contact Drive DeVilbiss Healthcare Ltd Customer Service
	The handset light turns yellow when one of the keys is pressed	The actuator plug is not properly plugged in the control box	Insert the plug correctly
	The handset indicator light is red	The actuator cable is cut	Replace the actuator
		Relay fault in the power supply	Contact Drive DeVilbiss Healthcare Ltd Customer Service
The actuator works but very slowly	The red light of the battery charge status display on the control panel is on (*) Repeated beeps may be heard when the patient lift boom is lifting	The battery pack is discharged	Charge the battery pack
		The battery pack no longer holds a charge	Replace the battery pack
The actuator makes an abnormal noise		The actuator is damaged	Contact Drive DeVilbiss Healthcare Ltd Customer Service
Batteries will not charge (charger light does not blink)	The charger light is off	The charger is not powered	Check the charger is connected to the wall socket
		The charger is out of order	Check the presence of mains voltage at the wall socket
	The charger light is permanently on	The charger charging plug is not properly connected	Check the connection of the charging socket
		The battery pack or the control box is out of order	Contact Drive DeVilbiss Healthcare Ltd Customer Service
The maintenance light is on	The red light under the small key on the control panel is on	The patient lift requires preventative maintenance	Contact Drive DeVilbiss Healthcare Ltd Customer Service

(\*) : after pressing one of the functions of the handset for more than 2 seconds

## XII - MAINTENANCE BOOK

This document should be photocopied and given to the technician every time the patient lift is serviced. In case of incident, the liability can only be determined if all the sheets of this book are completed.

**PATIENT LIFT SERIAL NUMBER :** .....

**COMPANY :** .....

DATE	Type of intervention: Check, inspection, quotation, repair, etc.	Intervention description	Technician's name and position